thermoscientific

Speed and flexibility

Automate your environmental, water, detergent, food and beverage analysis

Thermo Scientific Gallery and Gallery Plus
discrete industrial analyzers

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Improve productivity, reproducible results in minutes

Thermo Scientific™ Gallery™ and Gallery™ Plus discrete analyzers are easy to use, automated systems that allow laboratories to simplify their testing with the dual benefits of time and cost savings. All necessary analysis steps are automated, providing true walk-away time for the operator. Self-contained benchtop Gallery analyzers occupy a small footprint, facilitating installation in any size laboratory.

Increase efficiency with automated discrete photometry

The discrete cell technology of Gallery analyzers offers faster, reproducible results with less sample and reagent waste. All necessary analysis steps are automated and low detection levels can be achieved. This technology has been successfully adapted to over 50 food and beverage and environmental applications.

The Gallery analyzers high level of automation means that they are easy to operate. The Gallery analyzer includes a combined sample and reagent disk for a maximum capacity of 90 samples with the ability to run as many as 200 tests per hour. The Gallery Plus analyzer can accommodate 108 samples and 42 reagents in its separated sample and reagent disks with the capability to run as many as 350 tests per hour.

- Automated start up and shut down protocols; no warm up time required.
- Samples and reagents can be loaded without interrupting the current cycle.
- Identification is automated by a barcode reader.
- Accommodates a variety of sample cups and primary tubes.
- Minimal sample pretreatment required.
- Several blanking possibilities eliminate sample matrix effects.
- Dilutions and repeat analyses are handled automatically.
- Results are ready within minutes with a realized reduction in hands-on time.
- User interface is easy to operate, making information management simple.

The Gallery analyzers require minimal maintenance, daily and weekly, thus maximizing the analyzer uptime.

Flexible and easy to use, parallel measurement of multiple analytes

Both Gallery instruments provide an integrated platform for two measurement techniques, photometric and electrochemical (pH and conductivity) which can be run simultaneously. Parallel determination of several analytes from a single sample as well as the presence of several automated features ensures analytical efficiency. Each individual reaction cell is isolated and temperature stabilized enabling highly controlled reaction conditions.

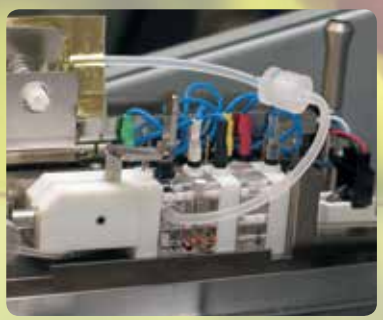
- Applications include tests for water, environmental, detergent, food and beverage samples.
- No risk of carry-over or requirement to wash glassware.
- Measurements cover a large concentration range with excellent reproducibility.
- User-specific applications can be developed to meet individual testing needs.
- An integrated platform, photometric and electrochemical, which can be run in parallel.
- No need for an external source of water.

Gallery Plus analyzer interior

Cuvette loader

Mixer arm

Incubator range from 25 to 60 °C

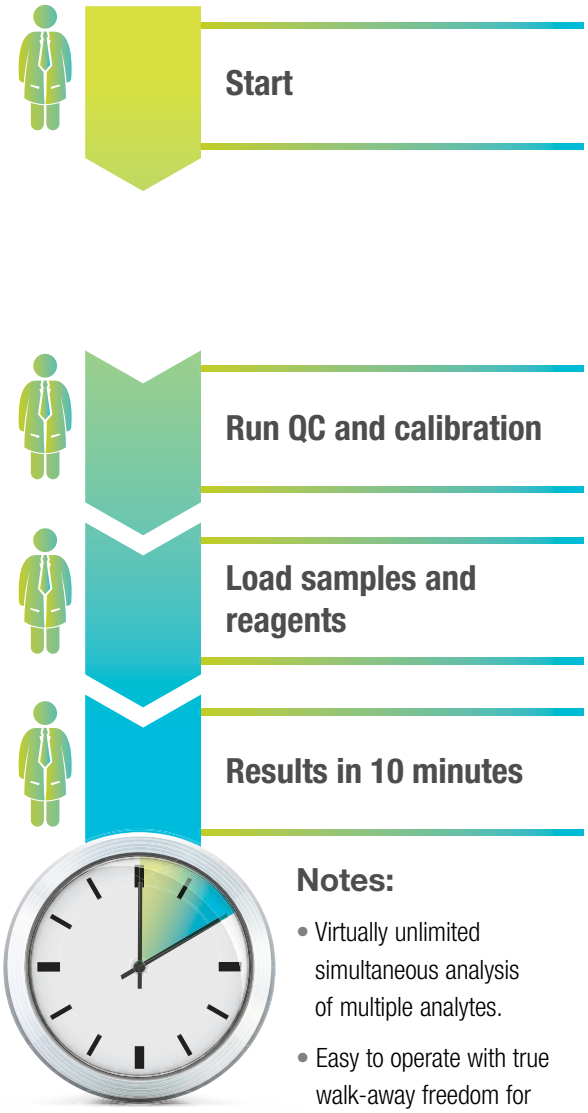


Optional electrochemical unit

Self-contained water tank

Automated discrete analysis, reduce hands-on time in your analytical process

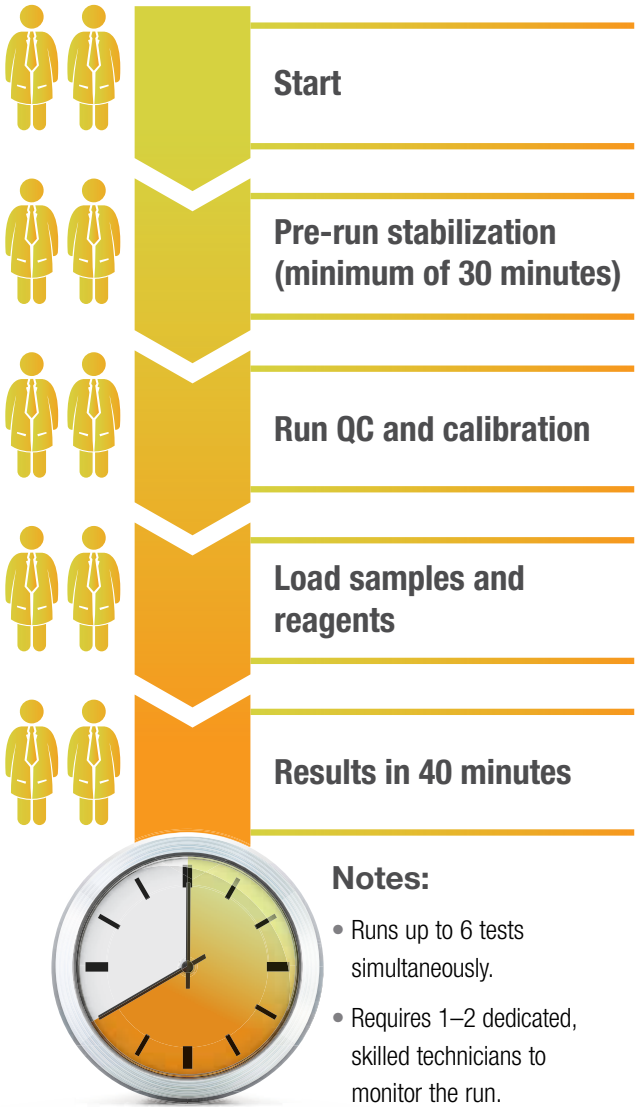
Discrete Analyzer Workflow



Notes:

- Virtually unlimited simultaneous analysis of multiple analytes.
- Easy to operate with true walk-away freedom for the technician.
- Sample volume in µL reducing reagent and waste disposal costs.

Standard Continuous Flow Analysis (CFA) or Segmented Flow Analysis (SFA) Workflow

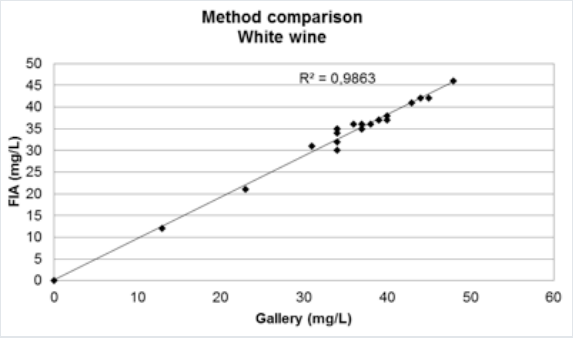


Notes:

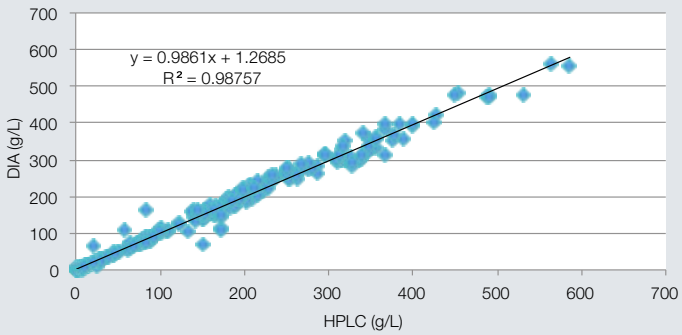
- Runs up to 6 tests simultaneously.
- Requires 1–2 dedicated, skilled technicians to monitor the run.
- Sample volume in mL increasing reagent and waste disposal costs.

Versatile and efficient analysis

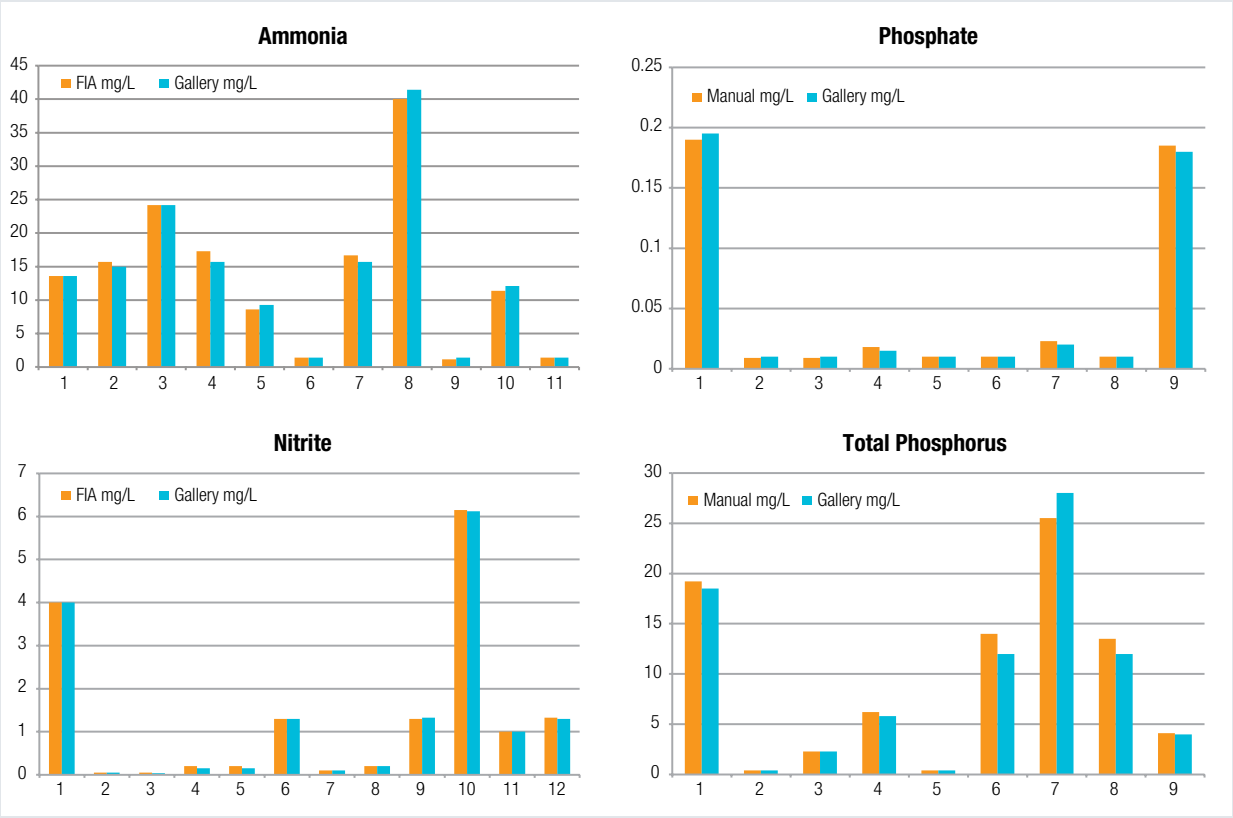
Free sulfite analysis



Glucose + Fructose + Sucrose analysis method comparison



In wine production, sugars, acids, alcohol, and sulfite analysis are important parameters for production and quality control. Gallery analyzers require no advanced preparation time and samples can be added at any time without interrupting the current run. Multiple tests can be done on a single sample with accurate, reproducible results. Your first result is available in as little as ten minutes with subsequent results coming out every 18 to 30 seconds. Method changeover time is eliminated since each reaction occurs in an individual cuvette.



Wastewater and process water need to be tested for many analytes including ammonia, nitrite and phosphorus. Gallery analyzers are flexible, can accommodate multiple sample types, and simultaneously analyze various parameters. Testing is efficient, hands-on time is significantly reduced, and waste is minimized. These instruments are easy to use and need no additional priming or method changeover time. Even additional tests can be requested without interrupting the routine workflow.

A complete system solution using Thermo Scientific system reagents

Thermo Scientific reagents are ready to go, saving the technician's time and reducing errors. The unique low volume cuvette design guarantees small reagent volumes, minimizes reagent waste, and as a result reduces reagent costs. Optimized kit sizes and on-board stability further minimize the amount of waste produced and increase cost efficiency.

Continuous monitoring of volume, lot, and expiration date provides real time reagent information.

- Between 10 to 50 times less reagent volumes are used when compared to continuous flow analysis and up to 15 times less when compared to manual methods.
- A wide range of calibration standards ensure accurate results.

Thermo Scientific System Applications for Food & Beverage and Detergent Testing

Acetaldehyde	Cholesterol	L-Glutamic acid	Oxalic Acid
Acetic Acid	Copper	Beta-Hydroxybutyric Acid	pH
Alpha-Amino Nitrogen (NOPA)	Ethanol (trace level)	Iron	Total Polyphenol
Alpha-Amylase	D-Fructose	D-Isocitric acid	Potassium
Ammonia	Beta-Glucan	D-Lactic Acid	Total Protein
L-Ascorbic Acid	D-Gluconic Acid	L-Lactic Acid	SO2 Free and Total
L-Asparagine	D-Glucose	Lactose	Sucrose (Total Glucose)
L-Aspartic acid	D-Glucose & D-Fructose	Lipase	Tartaric Acid
Calcium	D-Glucose & D-Fructose & Sucrose	Magnesium	Total Acids
Citric Acid	Glycerol	L-Malic Acid	Urea

Thermo Scientific System Applications for Water and Soil Testing

Alkalinity	Conductivity (ECM)	Nitrite	Total Hardness
Ammonia	Fluoride	pH (ECM)	Urea (Ammonia)
Calcium	Iron (Ferrous)	Phosphate	
Chloride	Magnesium	Silica	
Chromium (VI)	Nitrate	Sulphate	

ECM = Electrochemical measurement

Experience robust testing

Analyzer	Gallery	Gallery Plus
Total Capacity	Up to 200 photometric tests per hour	Up to 350 photometric tests per hour
Sample Capacity	Maximum of 90 using five 9- or 18-position sample racks and one 6-position reagent rack	Maximum of 108 using six 9- or 18-position sample racks
Reagent Capacity	Maximum of 30 using one 9- or 18-position sample rack and five 6-position reagent racks	Maximum of 42 reagent positions
Walk-away Time	Up to 2 hours	Up to 3 hours
Water Consumption	1.5 liters per hour	2.5 liters per hour
Dimensions	75 cm W × 70 cm D × 62 cm H (closed) 75 cm W × x 70 cm D × 130 cm H (open) 27.5 in W × 27.6 in D × 24.4 in H (closed) 27.5 in W × 27.6 in D × 57 in H (open)	94 cm W × 70 cm D x 62 cm H (closed) 94 cm W × 70 cm D x 130 cm H (open) 37 in W × 27.6 in D x 24 in H (closed) 37 in W × 27.6 in D x 51 in H (open)
Weight	85 kg (187 lbs)	110 kg (242 lbs)
Additional Features	Continuous access to samples, reagents, and cuvettes without interrupting the test cycle. Spectral range from 340—880 nm with different filter configurations available. Bi-directional LIMS connection available. Optional electrochemical unit available for conductivity and pH measurements.	

Find out more at:

thermofisher.com/gallery

thermofisher.com/galleryplus

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